

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

### Listing of Claims

1. (currently amended) A playback apparatus for extracting a playback signal from a recording medium without performing tracking control, said playback apparatus comprising:

an adaptive equalizing circuit for performing equalization of said playback signal;

and

detection means for determining an envelope value of said playback signal,

wherein said adaptive equalizing circuit is controlled in accordance with an envelope value from said detection means; and

phase-locked loop means responsive to said playback signal to control said adaptive equalizing circuit when phase lock with said playback signal is performed.

2. (currently amended) ~~A~~ The playback apparatus according to claim 1, wherein said adaptive equalizing circuit comprises:

a plurality of unit delay means for delaying said playback signal in sequence;

a plurality of weighting means for performing weighting on each of the delay signals; and

addition means for adding together the weighted signals, and wherein

each of the weighting signals of said plurality of weighting means is changed in accordance with said playback signal, and when the envelope value of said playback signal is more than or equal to a predetermined value, the coefficients in said weighting means are changed.

3. (currently amended) ~~A~~ The playback apparatus according to claim 2, further comprising wherein

said phase-locked loop means is used for forming a signal locked to an arbitrary phase of said playback signal, ~~wherein~~ such that when phase lock has been performed by said phase-locked loop means, the coefficients in said weighting means are changed.

4. (currently amended) An adaptive equalizing circuit for changing each weighting coefficient of a plurality of weighting means in accordance with an input signal, said adaptive equalizing circuit comprising:

a plurality of unit delay means for delaying the input signal in sequence;

the plurality of weighting means for performing weighting on each of the delay signals;

addition means for adding together the weighted signals; ~~and~~

detection means for determining an envelope value of said input signal[[],]; and

~~wherein~~ phase-locked loop means responsive to said playback signal when the envelope value from said detection means is more than or equal to a predetermined value, for adjusting said adaptive equalizing circuit to control a change of the coefficients in said weighting means are changed.

5. (currently amended) ~~A~~The adaptive equalizing circuit according to claim 4,  
~~further comprising wherein~~

said phase-locked loop means is used for forming a signal locked to an arbitrary  
phase of said input signal, ~~wherein~~ such that when phase lock has been performed by said phase-  
locked loop means, the coefficients in said weighting means are changed.

6. (currently amended) A playback method for extracting a playback signal from  
a recording medium without performing tracking control, said playback method comprising:

a detection step for determining an envelope value of said playback signal; ~~and~~

a step for performing adaptive equalization on said playback signal in accordance  
with said envelope value; and

a step for controlling said adaptive equalization when phase locking with said  
playback signal is performed.

7. (currently amended) ~~A~~The playback method according to claim 6, wherein

said step for performing adaptive equalization comprises the steps of:

delaying said playback signal in sequence by a plurality of unit delay means;

weighting the delayed delay signals by respective coefficients; and

adding together the weighted signals, and wherein, when the envelope value of  
said playback signal is more than or equal to a predetermined value, said weighting step changes  
said weighting coefficients in accordance with said playback signal.

8. (currently amended) ~~A~~ The playback method according to claim 7, further comprising a step ~~for~~ of forming a signal which is locked to an arbitrary phase of said playback signal, wherein, when phase lock has been performed in said signal forming step, said weighting coefficients are changed in accordance with said playback signal.

9. (new) The playback apparatus according to claim 1, wherein said phase-locked loop means extracts a data clock from said playback signal only when the envelope value of said playback signal is at least equal to a predetermined value.

10. (new) The adaptive equalizing circuit of claim 4, wherein said phase-locked loop means extracts a data clock from said input signal only when an envelope value of said input signal is at least equal to a predetermined value.

11. (new) The playback method of claim 6, wherein the step of phase locking extracts a data clock from said playback signal only when said envelope value of said playback signal is at least equal to a predetermined value.